

Project Members

- Guy

Idea

Dot Matrix printer fed a continuous stream of paper, to print tweets which contain a search term in near realtime.

Blueprint

- Script that polls the Twitter API for tweets with a given keyword

Interval ?

Need to sanitise text ?

http://search.twitter.com/search.json?q=hacman&since_id=1520639490

- Parses returned JSON and populates message queue

```
search(id,value);  
message_queue(message_id,search_id,time,from_user,from_user_id,to_user_id,message);  
last_message(search_id,message_id);
```

- Arduino calls a script that returns the next message

return ascii string containing CR and LF that can be streamed straight to the printer

Implementation

Test implementation of reading data from Twitter API and parsing it:

<http://www.thouret.co.uk/jsontest.php?q=stockport>

MySQL database schema as in blueprint created.

Script now in place and run by cron every 5mins to populate the message_queue table:

```
# Twitter Poller  
# Guy Thouret  
# 9/2/2010  
  
# get_url function  
function get_url($url) {  
    $ch = curl_init();  
    curl_setopt($ch,CURLOPT_URL,$url);
```

```
    curl_setopt($ch,CURLOPT_RETURNTRANSFER,
    curl_setopt($ch,CURLOPT_CONNECTTIMEOUT,
    $content = curl_exec($ch);
    curl_close($ch);
    return $content;
}

# Script constants
$debug      = false;
$twitter_search_api = "http://search.twitter.com/search.json";
$dbhost     = 'localhost';
$dbuser     = 'xxxx';
$dbpass     = 'xxxx';
$dbname     = 'feedprinter';

# DB Connection
$conn = mysql_connect($dbhost, $dbuser, $dbpass) or die('Error
connecting to mysql');
mysql_select_db($dbname);

# Perform Searches
$q = "SELECT * FROM search";
$r = mysql_query($q);

while ($row = mysql_fetch_assoc($r)) {
    # Get Last ID
    $q2 = "SELECT message_id FROM last_message WHERE search_id =
    ".$row['id'];
    $r2 = mysql_query($q2);
    $row2 = mysql_fetch_assoc($r2);

    $last_id = $row2['message_id'];
    if ($debug) {
        echo "lastid=".$last_id;
    }
    print_r($row2);

    $json_result =
    get_url($twitter_search_api."?q=".$row['value']."&since_id=".$last_id);
    $result = json_decode($json_result);

    $last_id = 0;
    foreach ($result->results as $tweet) {
        $q3 = "INSERT INTO message_queue VALUES
        ('".$tweet->id."','".$row['id']."','".$tweet->created_at."','".$tweet->from_
        user."','".$tweet->from_user_id."','".$tweet->to_user_id."','".$tweet->text.
        "')";

        $r3 = mysql_query($q3);
        if ($debug) {
            echo $q3;
        }
    }
}
```

```
        if ($tweet->id > $last_id) $last_id = $tweet->id;
    }

    if ($last_id != 0) {
        $q4 = "UPDATE last_message SET message_id=".$last_id." WHERE
search_id=".$row['id'];
        $r4 = mysql_query($q4);
    }
}

mysql_close($conn)
```

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Last update: **2022/11/30 16:31**

